



TIMNA COPPER MINES Ltd

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Product Specification

Copper Sulphate Pentahydrate

Feed Grade – Fine Crystal Description

Blue crystals, nominal 0.1-0.6 mm, dry, odorless, free-flowing and dustless. No anti-caking agent is added as there is no need for it.

Chemical Analysis

	Guaranteed	Typical
CuSO₄·5H₂O	99.5% min	99.89%
Copper	25.5% min	25.85%
Iron	300 ppm max	160 ppm
Zinc	180 ppm max	45 ppm
Lead	30 ppm max	20 ppm
Nickel	40 ppm max	35 ppm
Arsenic*	0.4 ppm max	0.05 ppm
Mercury*	0.1 ppm max	0.04 ppm
Cadmium*	0.3 ppm max	0.2 ppm
Water Insoluble	0.2% max	0.07%
Free moisture	Nil	Nil
Free Acidity	Nil	Nil

*Tested periodically

Size Distribution (Tyler mesh)

+28 (0.6 mm)	0 – 3%
+48 (0.3 mm)	15 – 35%
+100 (0.15 mm)	30 – 45%
+200 (0.075 mm)	20 – 40%
+325 (0.045 mm)	2 – 15%
<325	0 – 3%



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Standard Packaging

25 kg polyethylene-lined polypropylene bags
1000 kg polyethylene-lined polypropylene big-bags

Storage and Handling Conditions

Copper sulfate pentahydrate should be stored in closed containers in a cool, dry and well-ventilated place, away from heat sources and reducing agents. Store copper sulfate in polypropylene, PVC, plastic, stainless steel or fiberglass containers. If container or bag is damaged, place the container or bag in a plastic bag. Use good housekeeping practices to avoid dust accumulation. Do not put leaking containers into storage. Do not store near any material intended for use or consumption by humans or animals. Keep out of the reach of children. Copper sulfate is very toxic to aquatic organisms!

Precautions to be taken:

Personal protective equipment should be used whilst handling copper sulfate. Avoid breathing dust or solution mist. Sweep up crystals or powder, vacuum is preferred. Eye wash station should be available in work areas. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove personal protective equipment immediately after handling copper sulfate. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Shelf Life

Shelf life of two years is guaranteed provided that proper storage conditions (as described above) are ensured.

Dotan Yosef
Quality Manager, TIMNA COPPER MINES Ltd.

